

AUTOMATIC RECIRCULATION AIRFLOW DAMPER

ABSTRACT OF THE DISCLOSURE

An automatic recirculation airflow damper for use in electronic enclosures utilizing multiple air moving devices to cool electronic components within the enclosure. When an air moving device is removed, the damper automatically closes an orifice associated with the absent air moving device, thus preventing the loss of cooling air from the vacated orifice and the subsequent reduction in cooling capacity. In some embodiments, the damper is attached to the enclosure with hinges. In certain embodiments, the damper is configured with elastomeric material such that the interface between the orifice and the damper offers high impedance to airflow while the damper is in a closed position. The automatic recirculation airflow damper reduces electronic thermal failures and therefore increases the reliability of a system equipped with the device.

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